

KOBOLD PRODUCT RANGE OVERVIEW

Industrial Measurement
& Control



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**JOMON
PERSADA
NUSANTARA**

INDUSTRIAL MEASUREMENT AND CONTROL

Monitoring and controlling the flow, pressure, level and temperature in a process plant is critical for ensuring safe operations, maintaining optimal conditions, reducing process deviations and maximising system performance.

The Kobold range of measurement devices offer precise and optimum control of process control variables. Easily integrated into many standard systems and can be coupled with a variety of control units providing a solution that is efficient and straight forward.



- Maintain and maximise system performance
- Minimise risks and protect personnel, equipment, and the environment.
- Maintain quality standards and comply with local regulations
- Help identify potential issues for quick interventions reducing downtime and safeguarding investments
- Real-time data that enables data-driven decisions leading to improved operational efficiency and performance



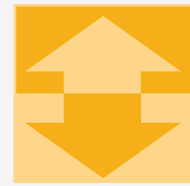
FLOW

Meters & Monitors
Switches / Indicators



PRESSURE

Gauges / Switches /
Transmitters / Transducers



LEVEL

Switches / Monitors
/ Indicators



TEMPERATURE

Thermocouples /
Thermometers / Switches



ACCESSORIES

Valves / Filters /
Instrumentation Devices
& Displays

FLOW

A diverse range of flow measurement solutions for a variety of applications across multiple industries.

- Oval gear meters for petroleum applications
- Small oval meters for dosing and monitoring
- Versatile magnetic meter for water, chemical and beverage applications
- Customisable magnetic meter for chemical and industrial applications
- Large magnetic meters for water measurement
- Low flow chemical magnetic meter
- Solid state flow switch/indicator
- Paddle flow switch for process monitoring
- Certified mass Coriolis for hydrogen

Flow Indicators

Essential in various applications for ensuring proper operation of processes and safety monitoring. These devices allow operators to visually observe, check and confirm the flow of liquids, gases or steam.

Technologies include:

- Paddle spinning
- Gears
- Float

Applications:

- Water or light chemicals
- Light petroleum products
- Chemical dosing



Flow Meters

Integral in various applications and measure the rate of flow of liquids, gases and steam. They provide crucial data for the monitoring and controlling of processes, ensuring efficiency, safety and compliance.

Technologies include:

- Ultrasonic
- Magnetic Induction
- Turbine
- Pressure differential
- Oval gear
- Calorimetric

Applications:

- Water Treatment
- Chemical Processing
- Food & Beverage
- Oil & Gas



Flow Switches

Essential in systems where maintaining a specific flow rate is critical for safe and efficient operation. These devices monitor the flow of liquids, gases and steam, preventing damage and ensuring operational consistency by providing immediate feedback and control based on the flow conditions in the system

Technologies Include:

- Paddle
- Thermal
- Piston-type

Applications:

- Lubrication systems
- Heating and cooling systems
- Emergency sprinkler systems





PRESSURE

Pressure measurement solutions for a variety of applications across multiple industries.

- Heavy duty / industrial battery powered gauge
- Heavy duty digital transmitter/gauge with programmable outputs
- Industrial pressure gauge with programmable switching
- Multi-purpose pressure sensor with 4-20mA output
- Bourdon tube pressure gauges for all industries

Pressure Sensors

Essential for monitoring and controlling the pressure of gases or liquids in a variety of applications. Changes in pressure can be read by instruments or control systems. Used to ensure proper operation, safety and efficiency.

Applications:

- Hydraulics
- Lubrication process systems
- Light petroleum products
- Water or light chemicals
- Air Pressure Monitoring



Pressure Transmitters

Provides reliable, consistent and accurate pressure measurement of liquids, gases or steam ensuring process stability, safety and efficiency. The signal can be easily integrated into various control systems.

Applications:

- Hydraulics
- Lubrication process systems
- Light petroleum products
- Water or light chemicals
- Air Pressure Monitoring



Pressure Gauges

The digital or mechanical monitoring and display of the pressure of liquids or gases. Durable and simple monitoring across a wide range of applications. The selection of digital versus mechanical depends on required precision, environmental conditions and specific needs.

Applications:

- Hydraulics
- Light petroleum products
- Water or light chemicals
- Test bench applications





LEVEL

Comprehensive range of level measurement technologies for a wide variety of applications.

- Commodity level contact switch for most applications
- Rotating vane assembly for silo level monitoring
- Plastic ultrasonic sensor for chemical tank applications
- Customisable level contact switch for multiple switch points and custom lengths.
- Tuning fork switch for specialised processes

Level Switches

Detect, monitor and control the levels of liquids and solids in tanks, silos or vessels. Maintain levels, prevent overflows or ensure minimum levels maintaining a safe and efficient operation.

Technologies include:

- Capacitive
- Ultrasonic
- Radar
- Float

Applications:

- Fuel storage systems
- Storage tanks
- Silos
- Water treatment



Level Transmitters

Continuously measure and control the level of a liquid or solid in a container. Provide real-time measurements across a range of levels. Critical for process control, inventory management and safety.

Technologies:

- Capacitive
- Ultrasonic
- Radar
- Hydrostatic

Applications:

- Chemical processing tanks
- Fuel storage systems
- Water & wastewater
- Food & beverage



Level Indicators

Provide a direct visual indication of the level of liquids or materials in a container or tank. Maintain desired levels, prevent overflow or shortages.

Applications:

- Oil reservoirs
- Clear liquid tanks
- Steam boilers





TEMPERATURE

A variety of temperature measurement instruments for multiple applications.

- Simple temperature sensors for rooms and ambient environments
- Temperature switches for liquids and materials having variable tripping temperature
- Digital sensors with analogue output
- Temperature measuring instruments operate with infrared and with bimetal electrodes

Temperature Switches

Continuously monitor and control the temperature in various applications. These devices respond to temperature changes once a predefined temperature is reached, allowing operators or automated systems to take prompt corrective action.



Applications:

- Food & beverage
- Water
- Fuel storage systems

Temperature Transmitters

Continuously measure and control the temperature in a variety of applications, providing real-time, accurate and reliable measurements. Easily integrate into other control and monitoring equipment.



Applications:

- Process control
- Industrial automation
- HVAC industry



ACCESSORIES

Extensive range of accessories for Kobold range of products.

- Filters
- Valves
- Instrument devices
- Instrument displays

Filters

Magnetic filters are used in many applications to protect devices from dirt and contamination.

Applications:

- Cooling towers
- Lubrication process systems
- Refining of petroleum products
- Water treatment
- Oil & Gas



Valves

Devices are used to regulate, direct, or control the passage of fluid through pipes or ducts. Ball valves, pneumatic and electric valves and NRV's are on offer.

Applications:

- Water & sewage processing
- Power generation
- Food manufacturing
- Chemical & plastic manufacturing processing
- Hot water system
- Oil & gas



Instrumentation Devices & Displays

Displays and registers are designed to display/record flowrates and volume and transfer signal to a remote controller like PLC, DCS, SCADA

Applications:

- Used with flow meters



